l'héreby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail, in an envelope addressed to: Commissioner for Patents, Washington, DC 20231, on the date shown below.

Dated: February 11, 2003

Signature: (Andrew T. Zidel)

1-36-0°

Docket No.: SONYTA-3.3-139

Group Art Unit: 2131

Examiner: Not Yet Assigned

(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Asano et al.

Application No.: 09/937,120

Filed: December 17, 2001

For: DATA PROCESSING APPARATUS AND

DATA PROCESSING METHOD

Commissioner for Patents Washington, DC 20231

REQUEST TO AMEND DRAWINGS

Dear Sir:

Further to applicant's amendment dated February 11, 2003, permission is requested to amend the drawings of the above-identified application as indicated in red on the copy of the drawings attached hereto. By the requested changes, applicants seek to correct mislabeled elements, to add headings, and to correct typographical errors. Accordingly, applicants submit that none of these amendments will add new matter to the disclosure of the present application and, therefore, that these amendments should be enterable.

If the Examiner has any questions with respect to the proposed changes, he is invited to telephone the undersigned at (908) 654-5000. Additionally, if there are any fees due and owing, the Examiner is authorized to charge our Deposit Account No 12-1095 therefor.

Dated: February 11, 2003

Respectfully submitted,

Andrew T. Zidel

Patent Agent

Registration No.: 45,256

LERNER, DAVID, LITTENBERG,

KRUMHOLZ & MENTLIK, LLP

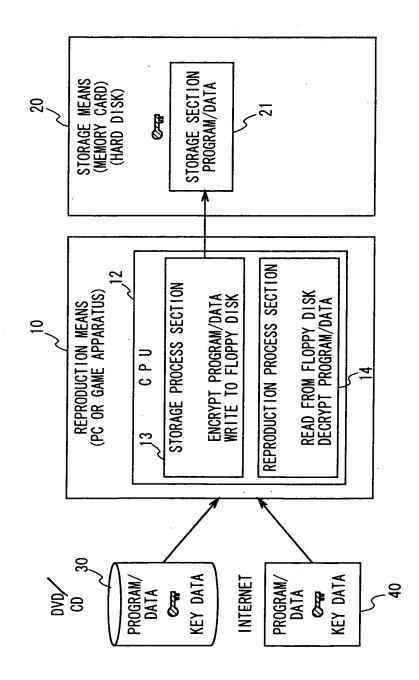
600 South Avenue West

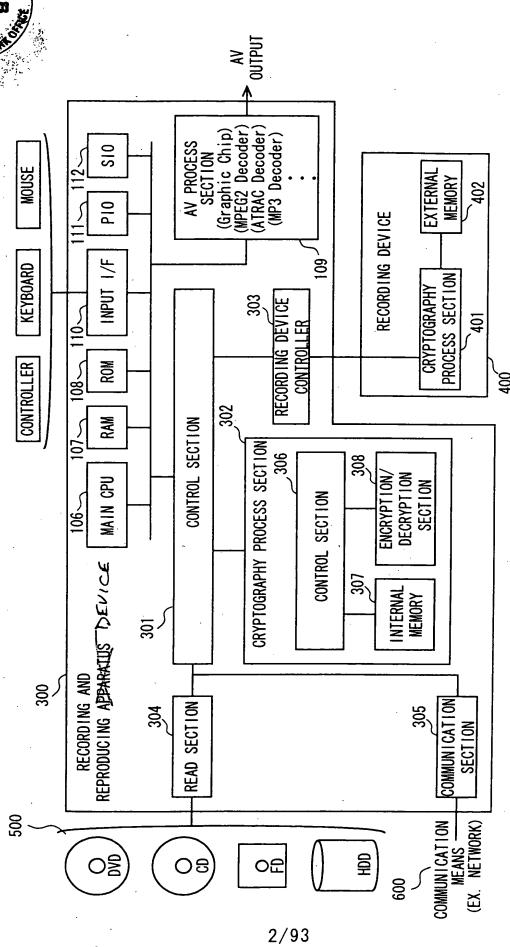
Westfield, New Jersey 07090

(908) 654-5000

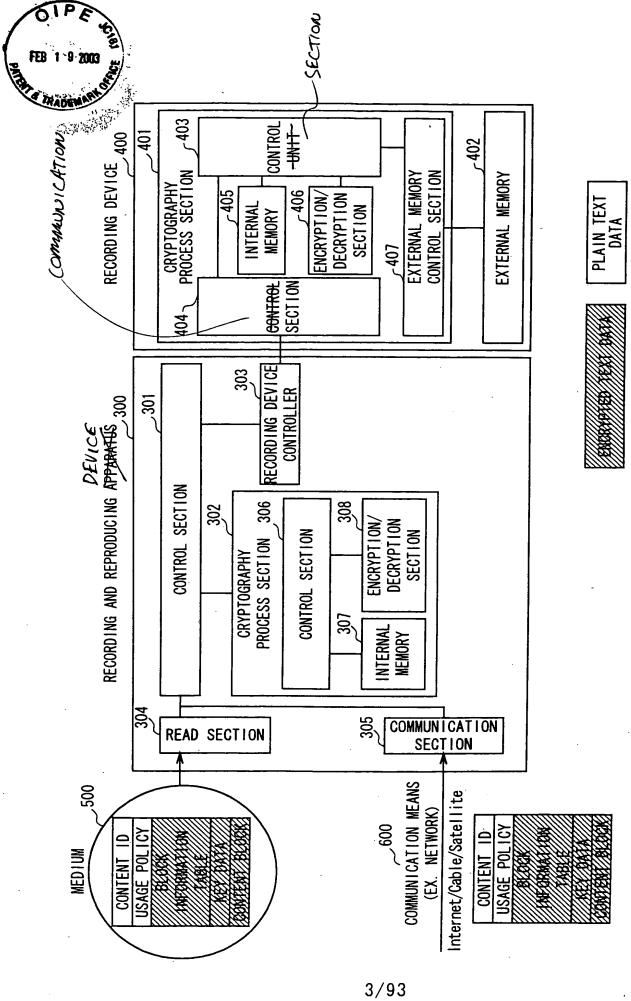
Attorneys for Applicant





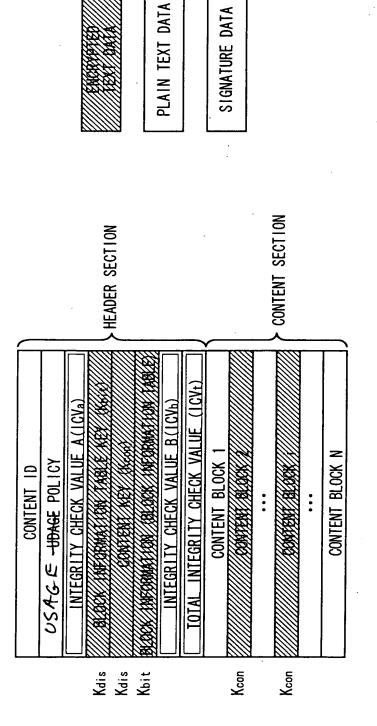


F16.2



F16.3

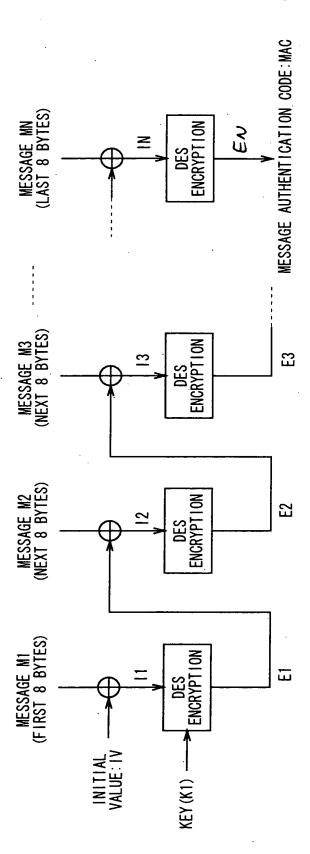




DATA FORMAT ON MEDIUM AND COMMUNICATION PATH



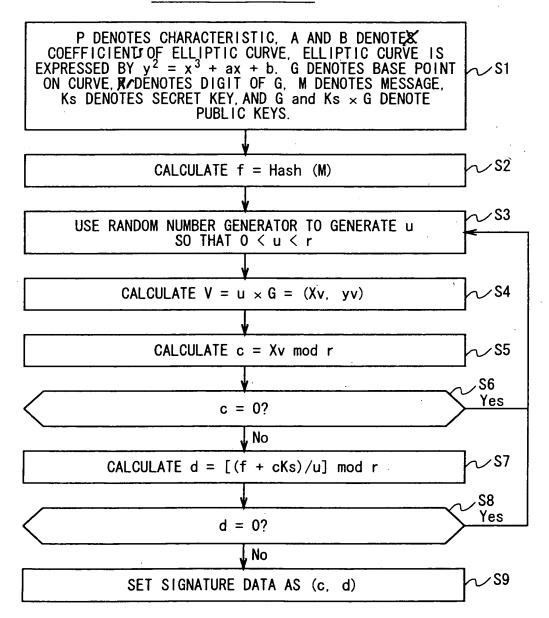




⊕: EXCLUSIVE OR (XOR) PROCESS (8-BYTE UNIT)



SIGNATURE GENERATION

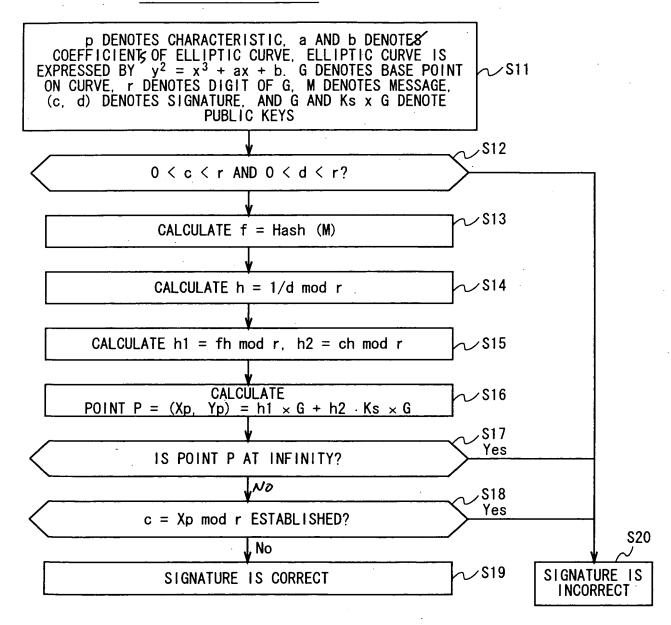


GENERATION OF SIGNATURE (IEEE P1363/D3)

FIG. 11



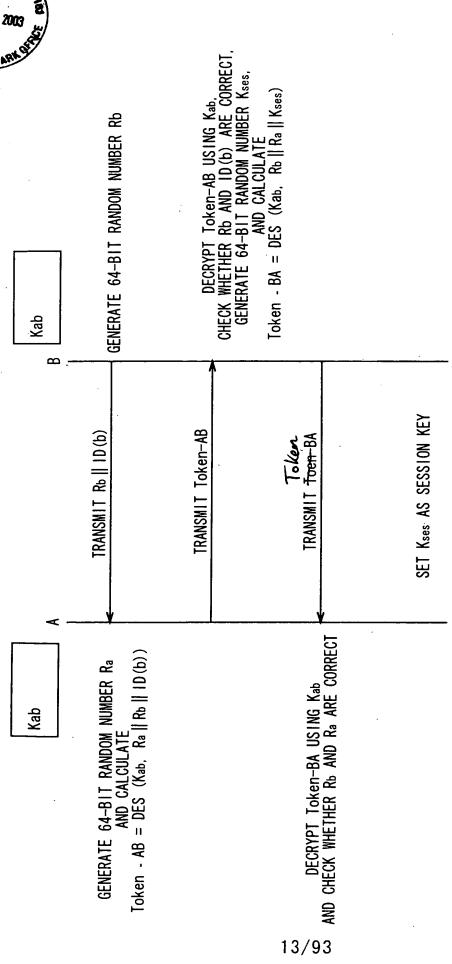
SIGNATURE VERIFICATION



SIGNATURE VERIFICATION (IEEE P1363/D3)

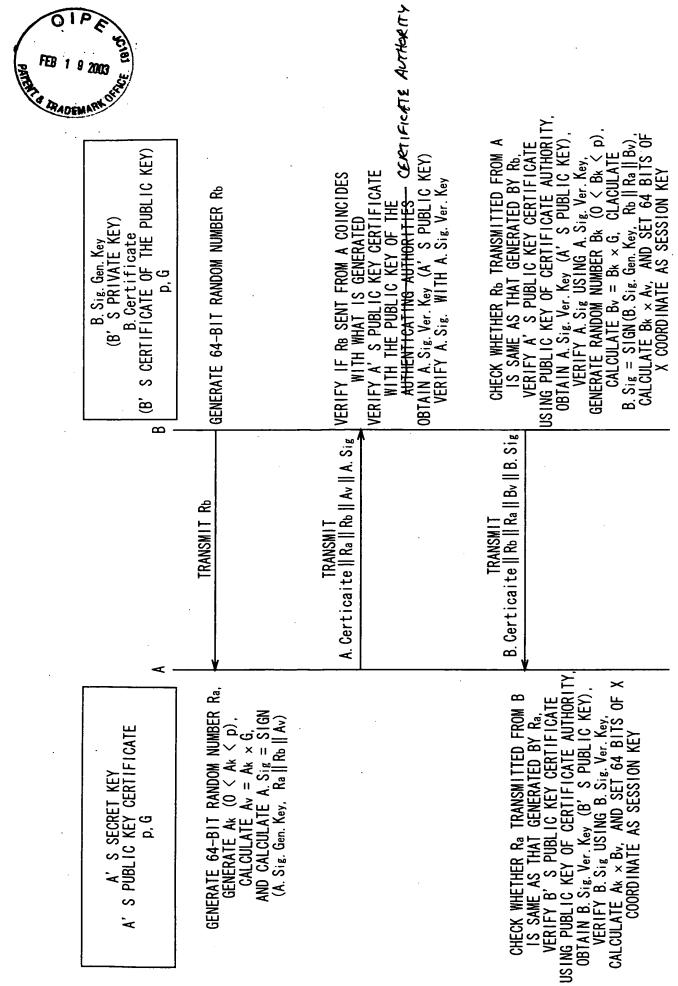
FIG. 12





180/1EC 9798-2 MUTUAL AUTHENTICATION AND KEY SHARING METHOD USING SYMMETRICAL KEY CRYPTOGRAPHY TECHNIQUE

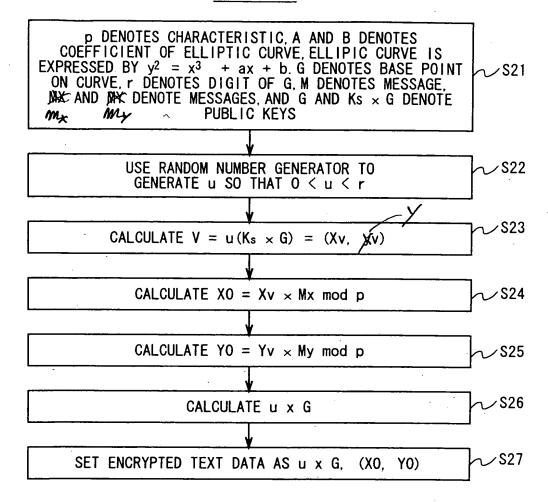
F16. 13



SHARING METHOD USING SYMMETRICAL KEY CRYPTOGRAPHY TECHNIQUE 1SO/1EC 9798-3 MUTUAL AUTHENTICATION AND KEY



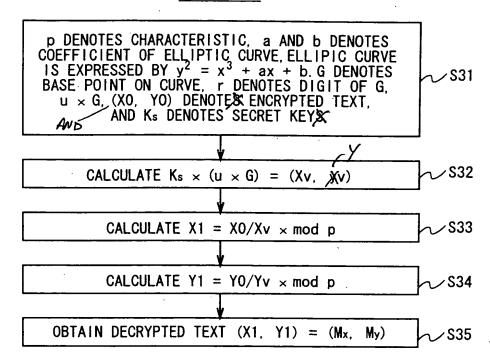
ENCRYPTION



ENCRYPTION USING ELLIPTIC CURVE CRYPTOGRAPHY (MENEZES-VANSTONE)

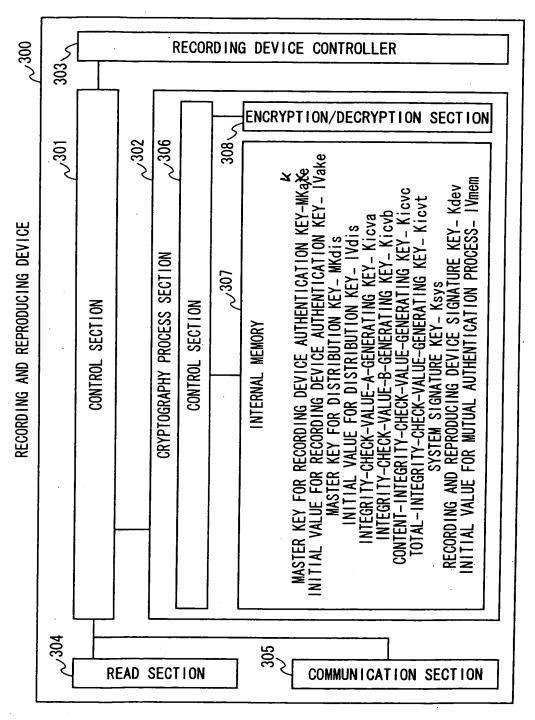


DECRYPTION



DECRYPTION USING ELLIPTIC CURVE CRYPTOGRAPHY (MENEZES-VANSTONE)

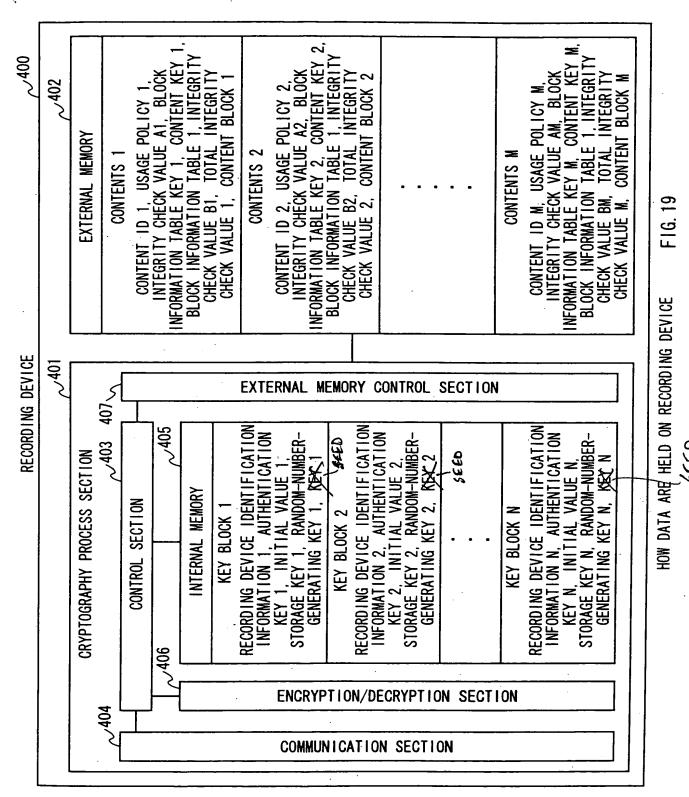




HOW DATA ARE HELD ON RECORDING AND REPRODUCING DEVICE

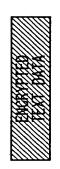
16 18











PLAIN TEXT DATA

SIGNATURE DATA

Kstr
Kstr
Kstr

INTEGRITY CHECK VALUE A(ICVa)

Kstr

INTEGRITY CHECK VALUE B(ICVb)

CONTENTS BLOCK 1

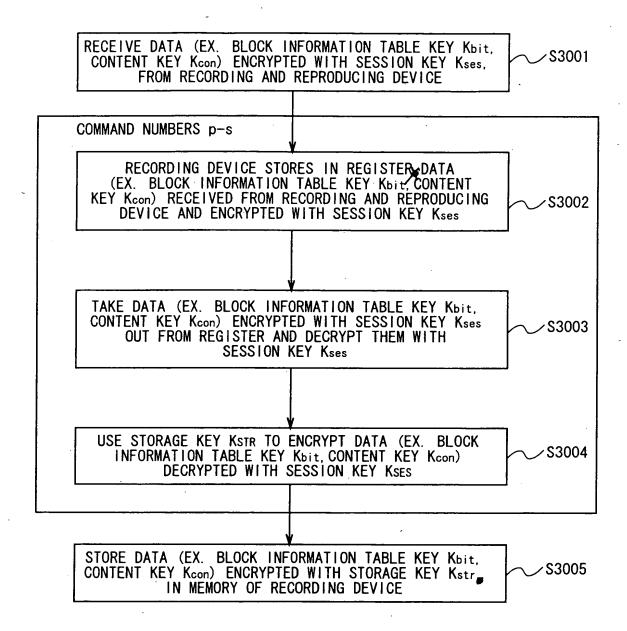
Kcon

CONTENTS BLOCK 1

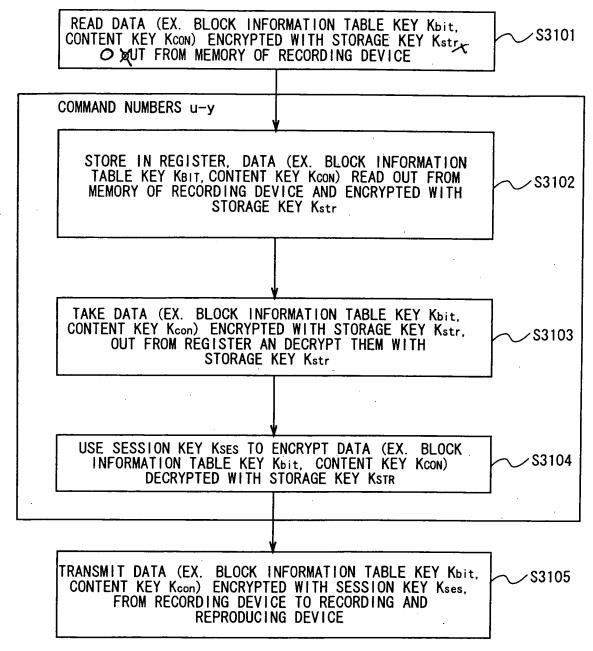
CONTENTS BLOCK 1

CONTENT STORED IN RECORDING DEVICE (LOCALIZATION FIELD = 0)



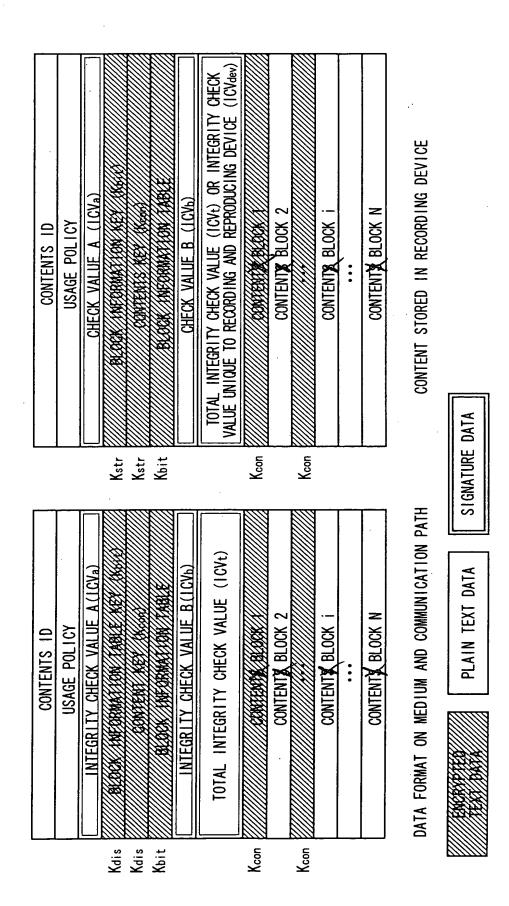








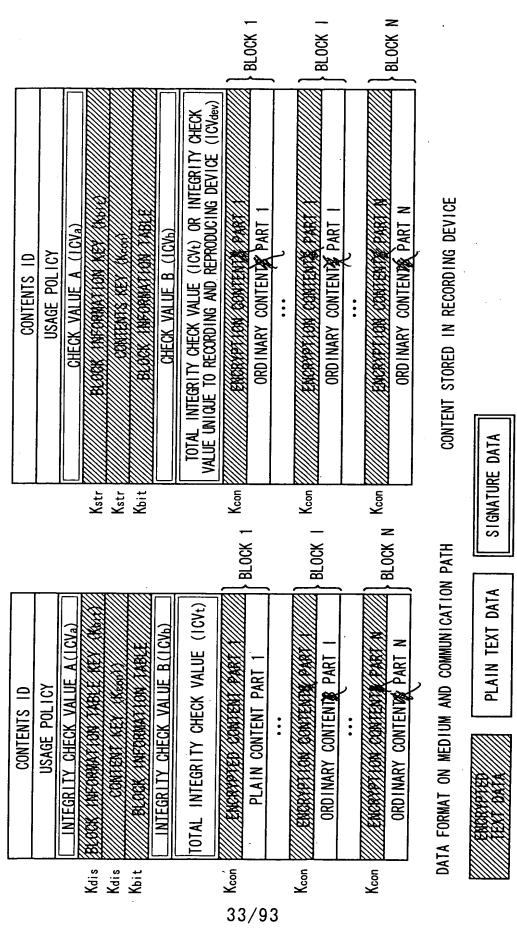
FORMAT TYPE 0



F1G. 32



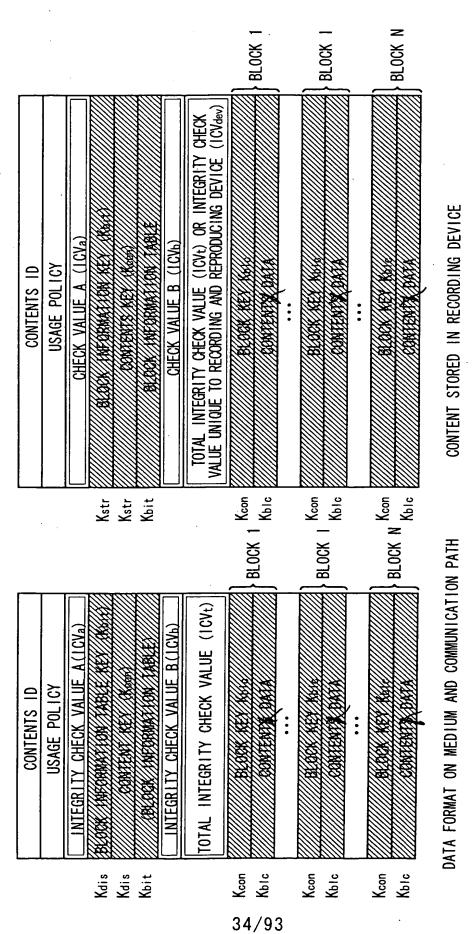
FORMAT TYPE



F16.33



FORMAT TYPE 2



PLAIN TEXT DATA

SIGNATURE DATA

F16.34

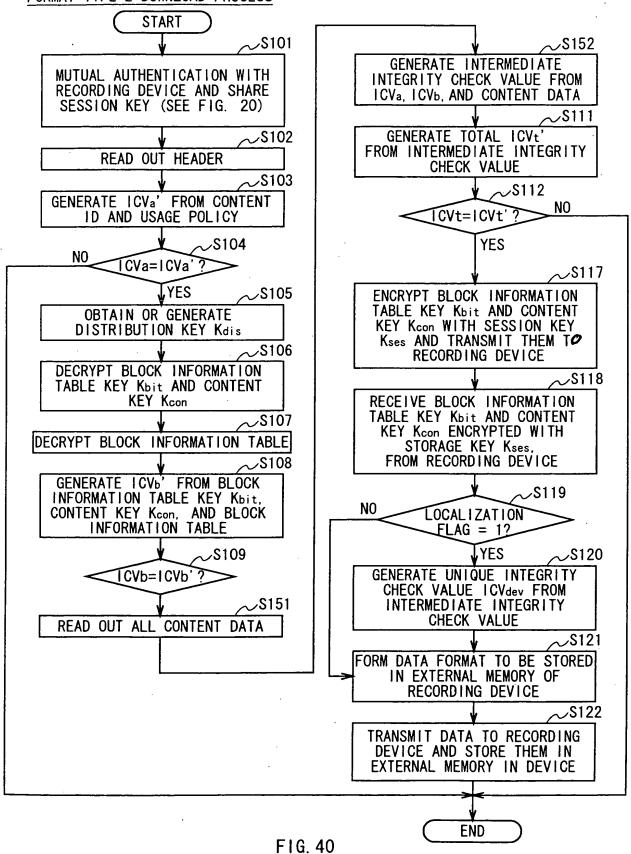


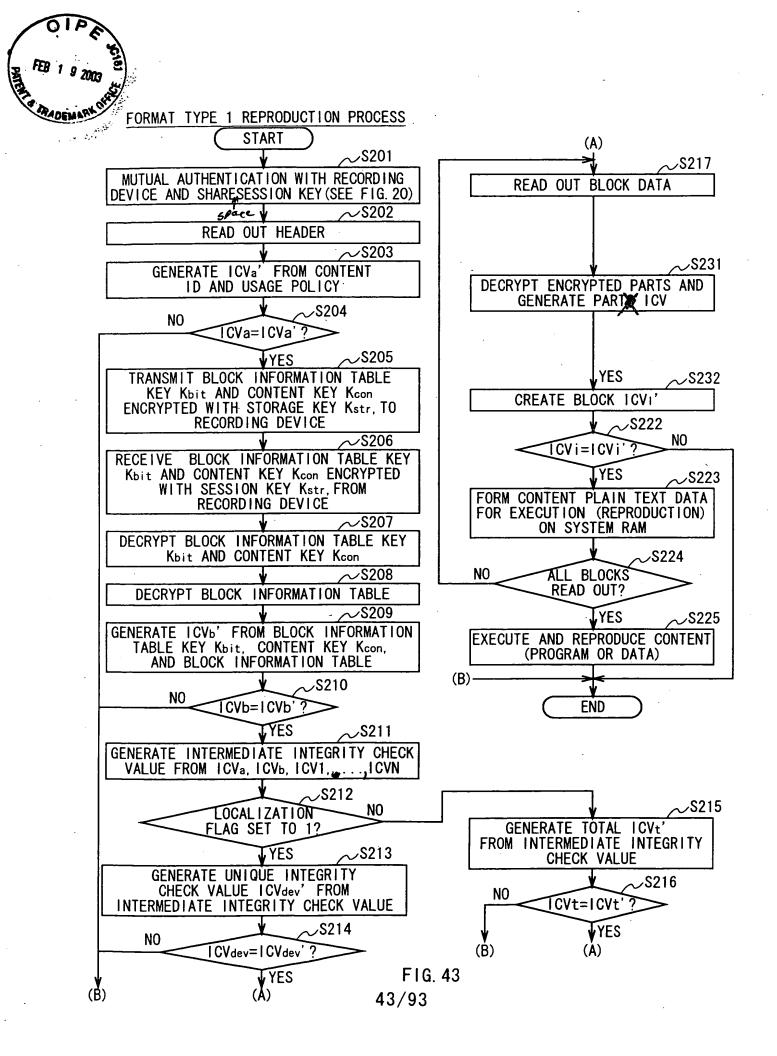
-ORMAT TYPE

16.35



FORMAT TYPE 2 DOWNLOAD PROCESS







FORMAT TYPE 2 REPRODUCTION PROCESS

〜S217

S241ر

∠S242

~S243

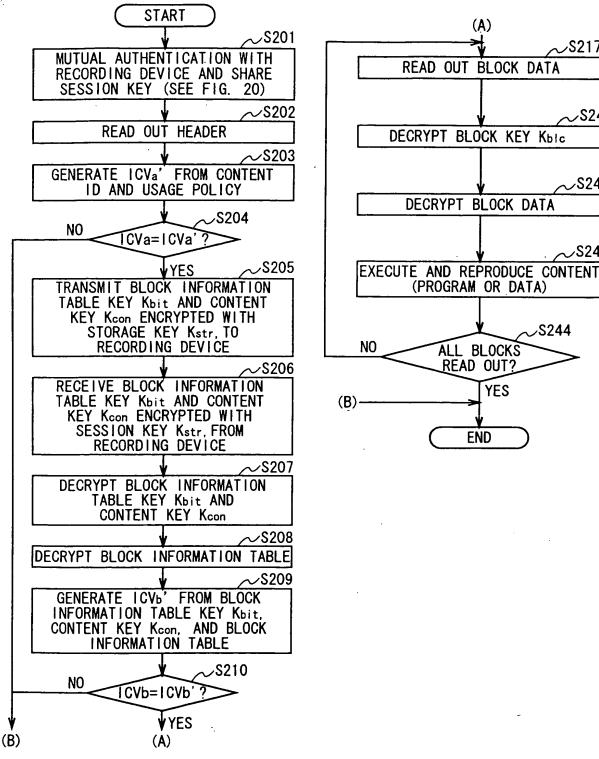
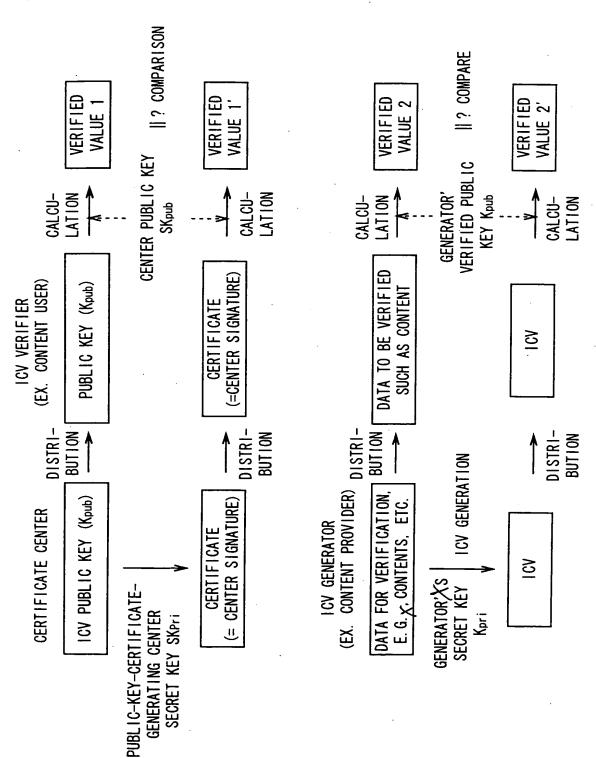
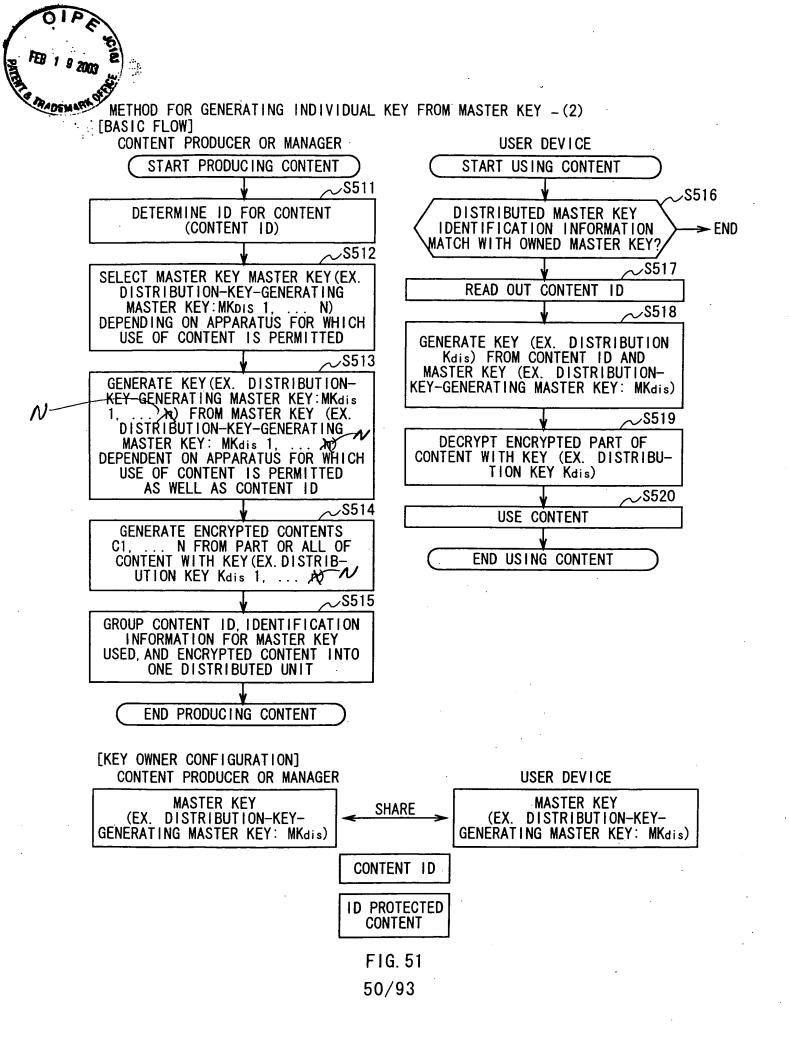


FIG. 44





F1G. 48





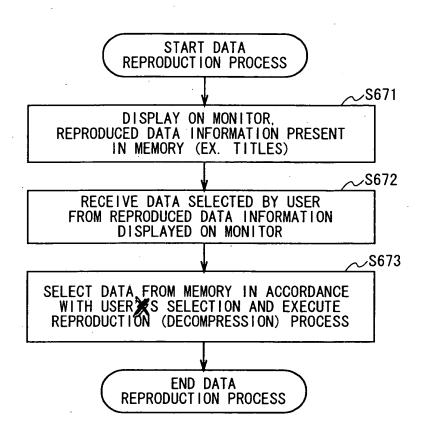


FIG. 62



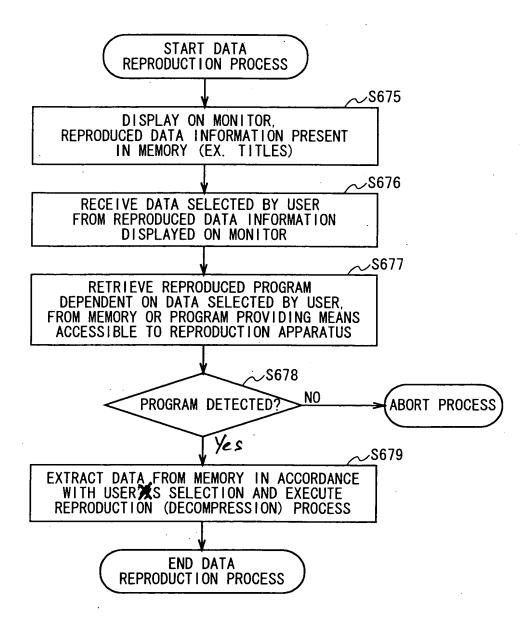


FIG. 64



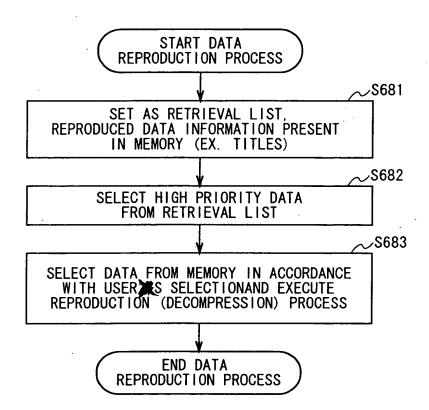
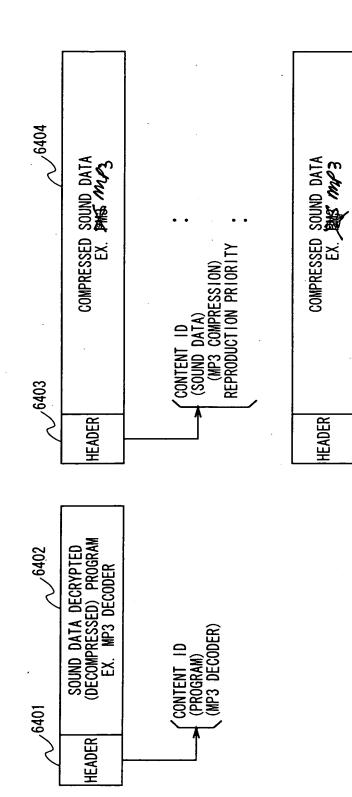


FIG. 66



EXAMPLE OF CONTENT CONFIGURATION (4)



F1G. 67



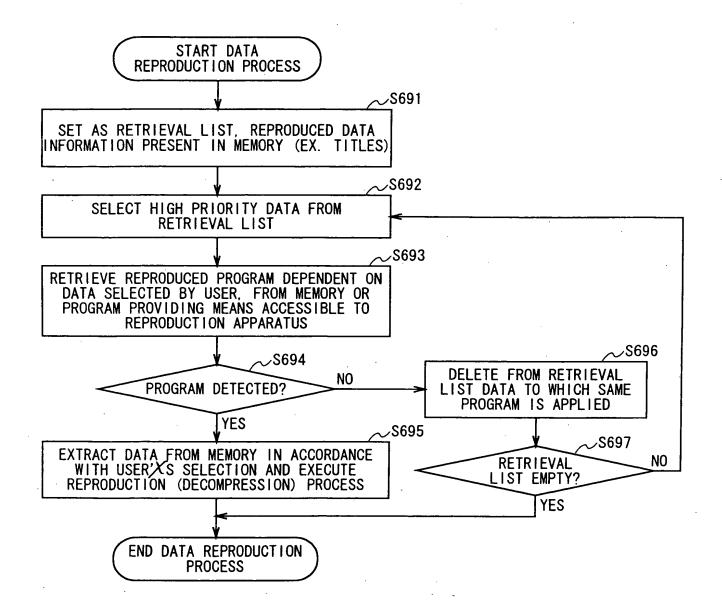


FIG. 68



(2) EXAMPLE OF SAVE DATA REPRODUCTION PROCESS USING CONTENT UNIQUE KEY OR SYSTEM COMMON KEY

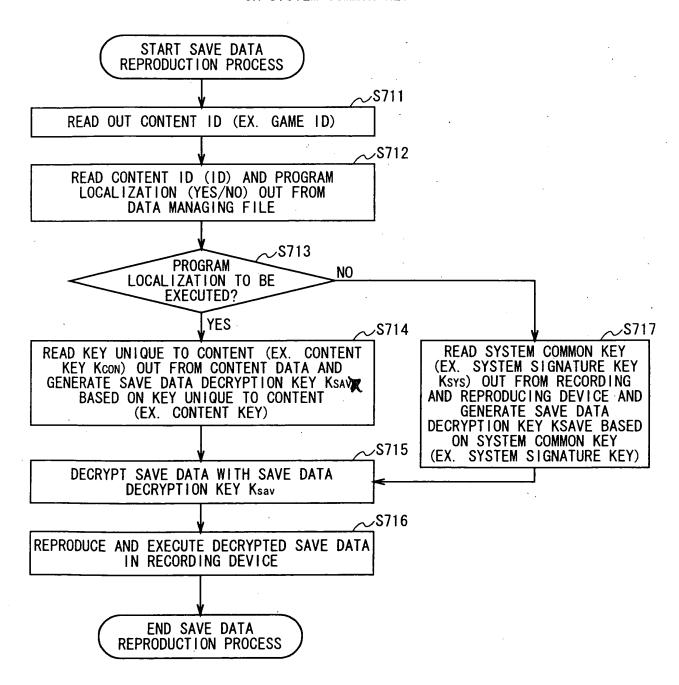


FIG. 72



(3) EXAMPLE OF SAVE DATA STORAGE PROCESS USING CONTENT ID OR SYSTEM COMMON KEY

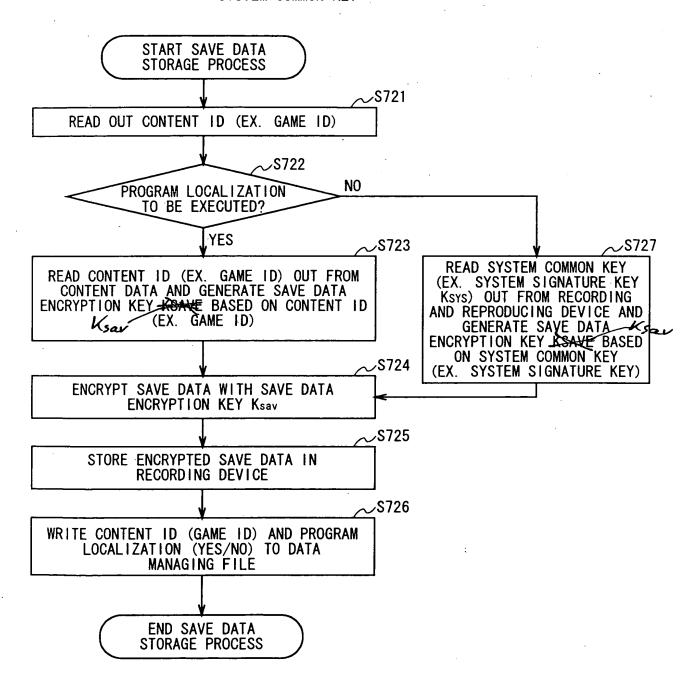


FIG. 73



(4) EXAMPLE OF SAVE DATA REPRODUCTION PROCESS USING CONTENT ID OR SYSTEM COMMON KEY

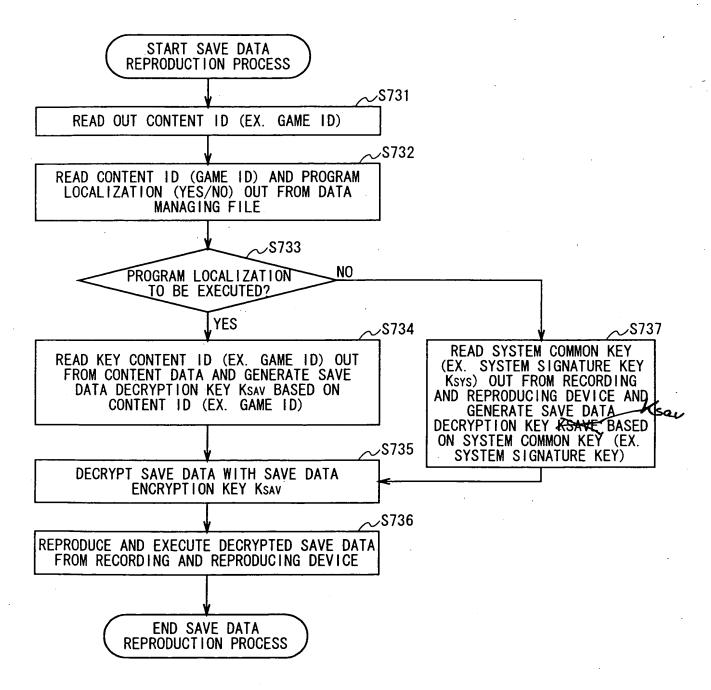


FIG. 74



(5) EXAMPLE OF SAVE DATA STORAGE PROCESS USING RECORDING AND REPRODUCING DEVICE UNIQUE KEY OR SYSTEM COMMON KEY

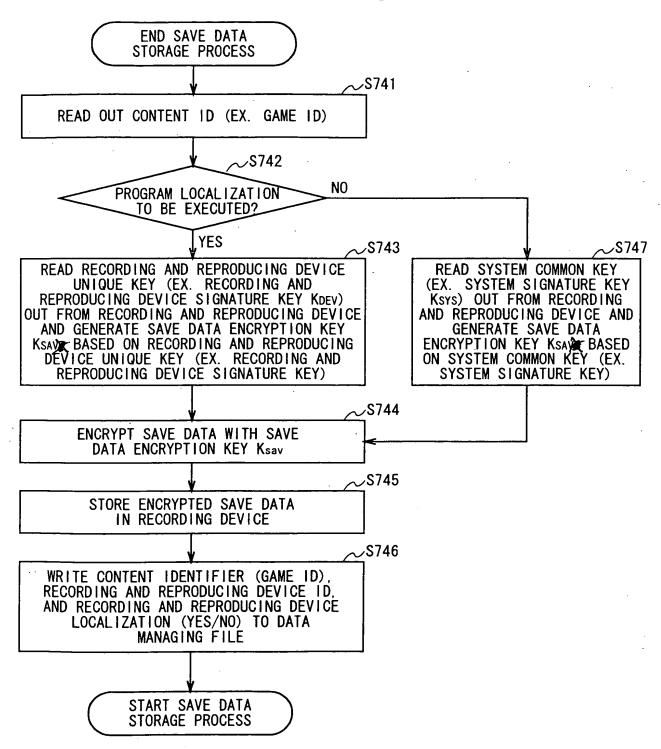
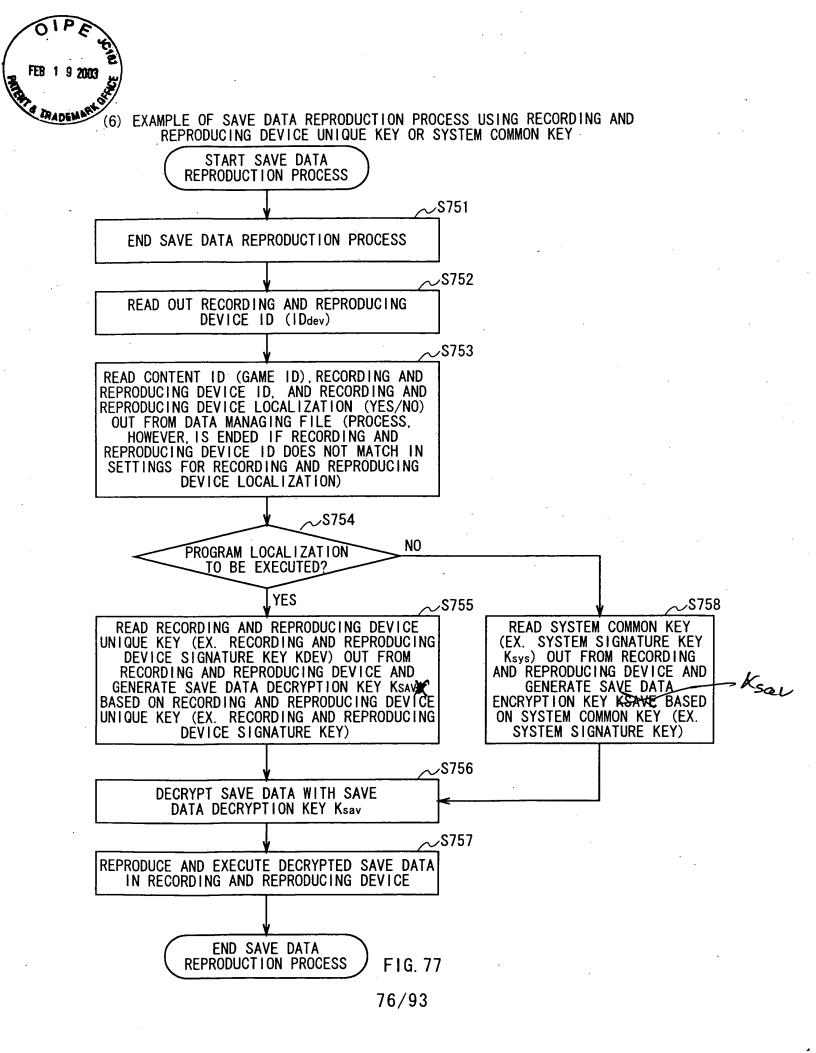
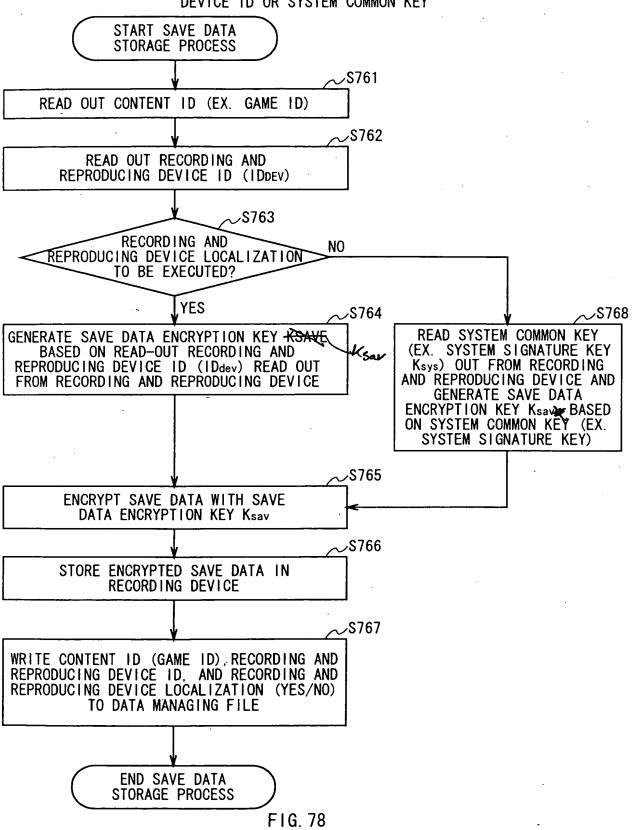


FIG. 75



FEB 1 9 2003 W

(7) EXAMPLE OF SAVE DATA STORAGE PROCESS USING RECORDING AND REPRODUCING DEVICE ID OR SYSTEM COMMON KEY





(8) EXAMPLE OF SAVE DATA REPRODUCTION PROCESS USING RECORDING AND REPRODUCING DEVICE ID OR SYSTEM COMMON KEY START SAVE DATA REPRODUCTION PROCESS

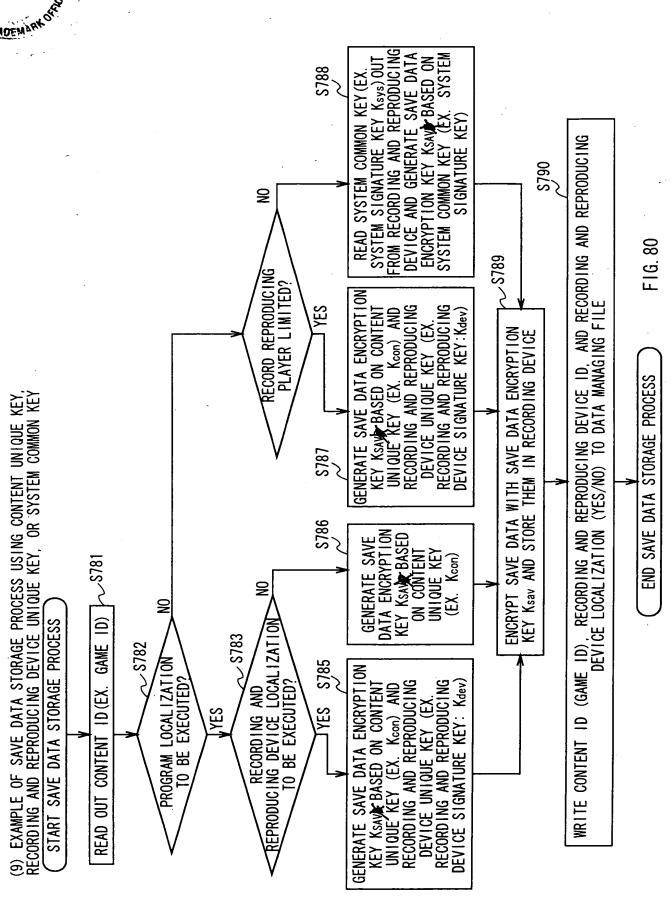
~S771 READ OUT CONTENT ID (EX. GAME ID) \sim S772 READ OUT RECORDING AND REPRODUCING DEVICE ID (IDdev) ~>S773 READ CONTENT ID (GAME ID), RECORDING AND REPRODUCING DEVICE ID, AND RECORDING AND REPRODUCING DEVICE LOCALIZATION (YES/NO) OUT FROM DATA MANAGING FILE (PROCESS, HOWEVER, IS ENDED IF RECORDING AND REPRODUCING DEVICE ID DOES NOT MATCH IN SETTINGS FOR RECORDING AND REPRODUCING DEVICE LOCALIZATION) YES ~S774 NO PROGRAM LOCALIZATION TO BE EXECUTED2 S775 S778ر Ksav READ SYSTEM COMMON KEY GENERATE SAVE DATA DECRYPTION KEY (EX. SYSTEM SIGNATURE KEY BASED ON RECORDING AND REPRODUCING DEVICE (IDdev) READ-OUT FROM RECORDING AND Ksys) OUT FROM RECORDING AND REPRODUCING DEVICE AND REPRODUCING DEVICE ID (IDdev) GENERATE SAVE DATA DECRYPTION KEY KSAVE BASED ON SYSTEM COMMON KEY (EX. SYSTEM SIGNATURE KEY) S776 DECRYPT SAVE DATA WITH SAVE DATA **ENCRYPTION KEY Ksav** ~S777 REPRODUCE AND EXECUTE DECRYPTED SAVE DATA IN RECORDING AND REPRODUCING DEVICE

78/93

FIG. 79

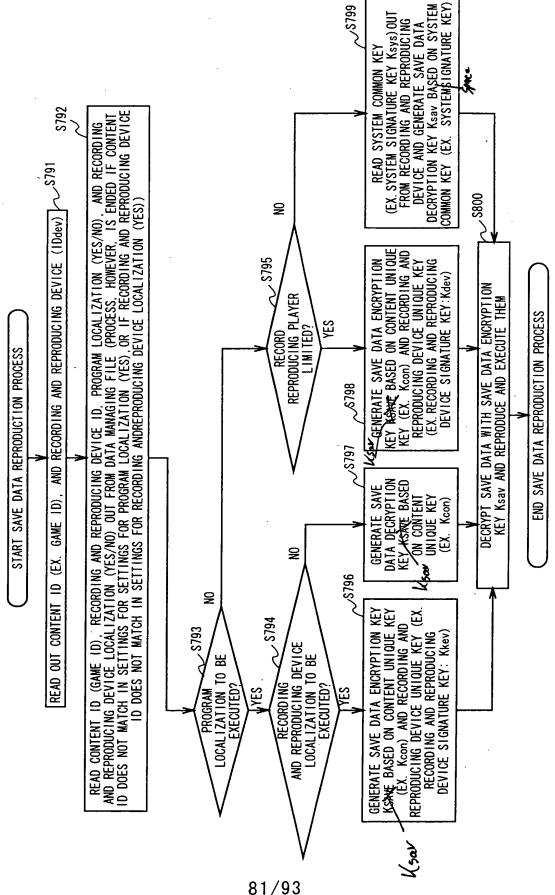
END SAVE DATA REPRODUCTION PROCESS







(10) EXAMPLE OF SAVE DATA REPRODUCTION PROCESS USING CONTENT UNIQUE KEY. RECORDING AND REPRODUCING DEVICE UNIQUE KEY, OR SYSTEM COMMON KEY



F16.82



(12) EXAMPLE OF SAVE DATA REPRODUCTION PROCESS USING USER PASSWORD OR SYSTEM COMMON KEY

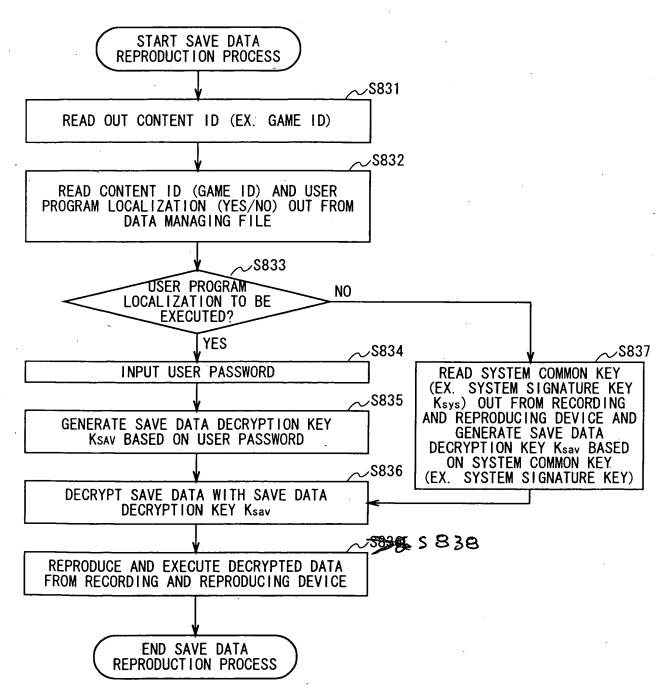


FIG. 85



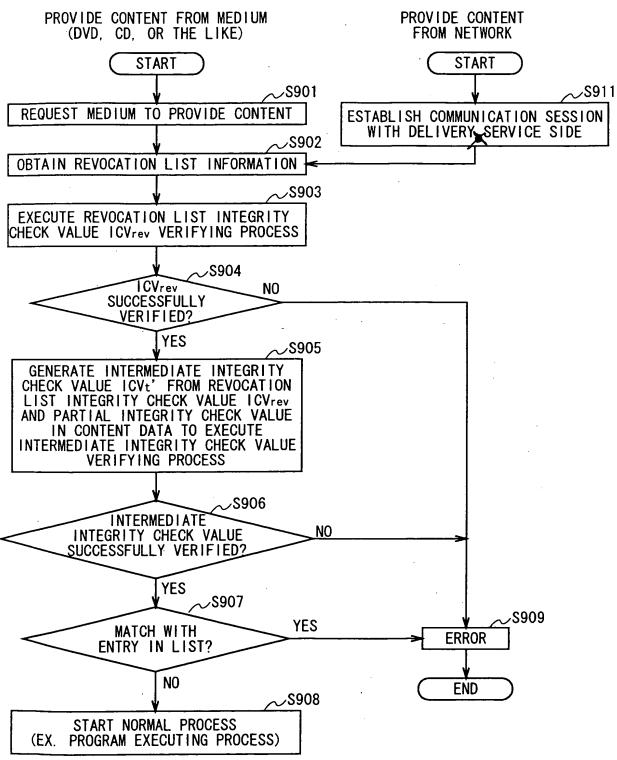


FIG. 87



